

Figure 1

Enzyme E1	Enzyme E2	Number of bases selected in the 5' position	in the 3' position	Number of potential subgroups (footprints)
<u>Bam HI</u> ↓ CGATCC CCTAGC	+ <u>Mme I</u> TCCPuAC.....20 AGPyTG.....18	1/32 (2x4x4)	1/16 (4x4)	16
<u>Eco RI</u> ↓ GAATTC CTTAAG		1/128 (4x2x4x4)	1/16 (4x4)	16
<u>Pst I</u> ↓ CTGCAG GACGTC		1/256 (4x4x4x4)	1/256 (4x4x4x4)	256
<u>Msp I</u> ↓ CCGG GGCC	+ <u>Bsm FI</u> GGGAC.....10 CCCTG.....14	1/64 (4x4x4)	1/256 (4x4x4x4)	256
<u>Xma CI</u> ↓ CCCGGG GGCCGC		1/16 (4x4)	1/256 (4x4x4x4)	256
<u>Msp I</u> ↓ CCGG GGCC		1/256 (4x4x4x4)	1/16 (4x4)	16
<u>Eco 56I</u> ↓ CCCGGC CGCCGC	+ <u>Ecl I</u> GGCGGA.....11 CCGCCT.....9	1/64 (4x4x4)	1/16 (4x4)	16
<u>Ksp I</u> ↓ CCGCGG GGCGCC		1/4 (4)	1/16 (4x4)	16

Figure 2

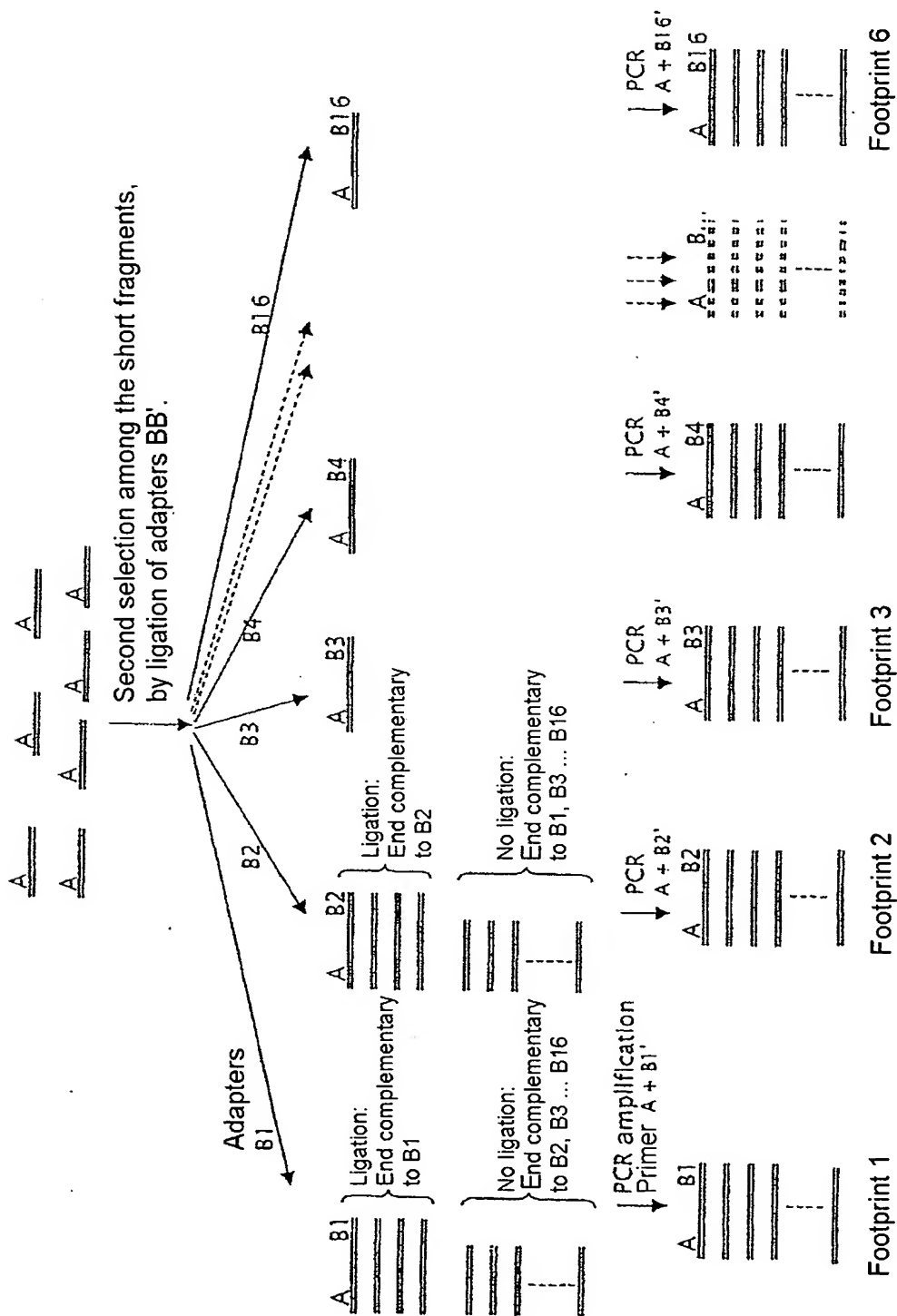
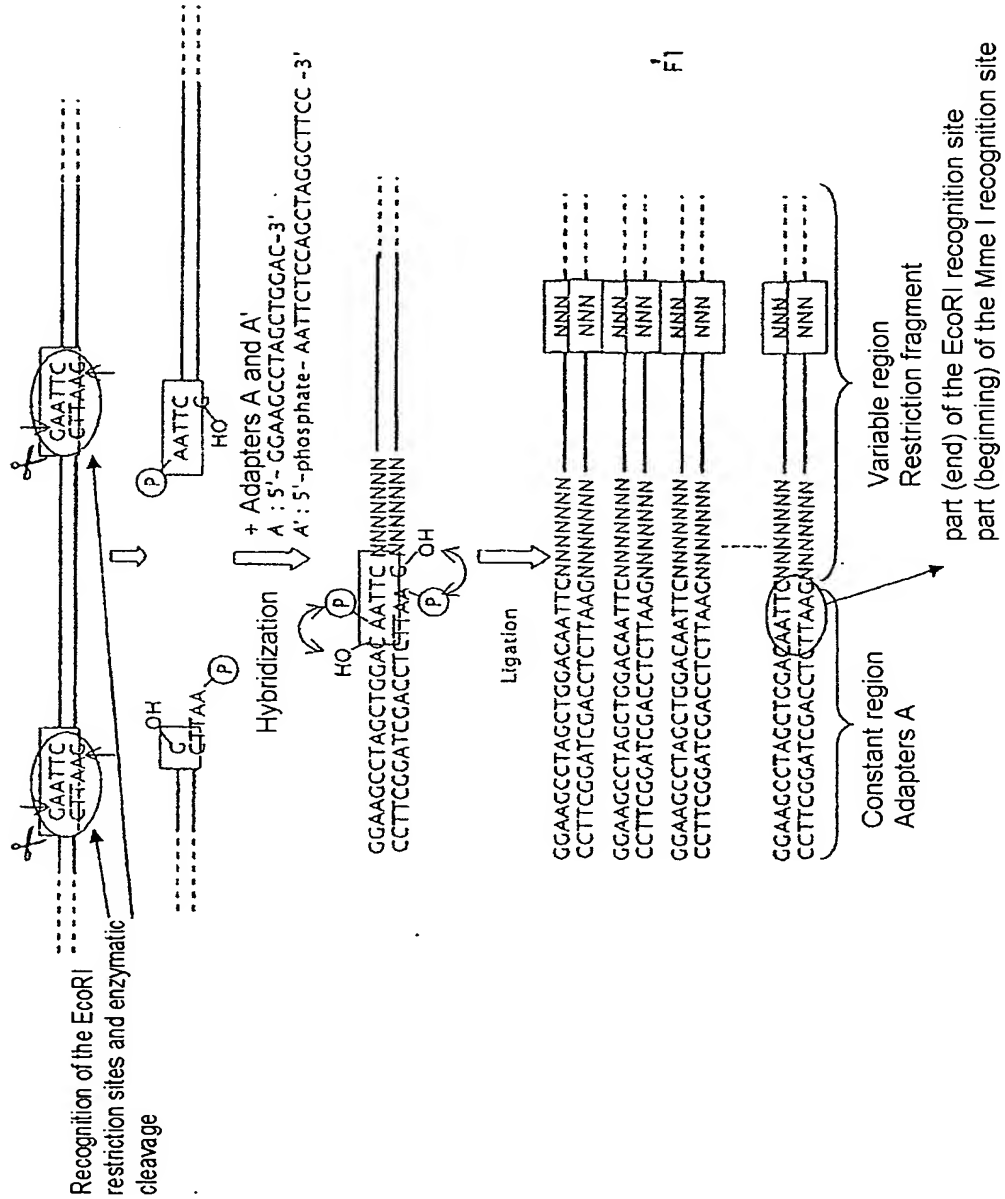


Figure 3



Inventor(s): Anne-Gaëlle BRACHET et al.

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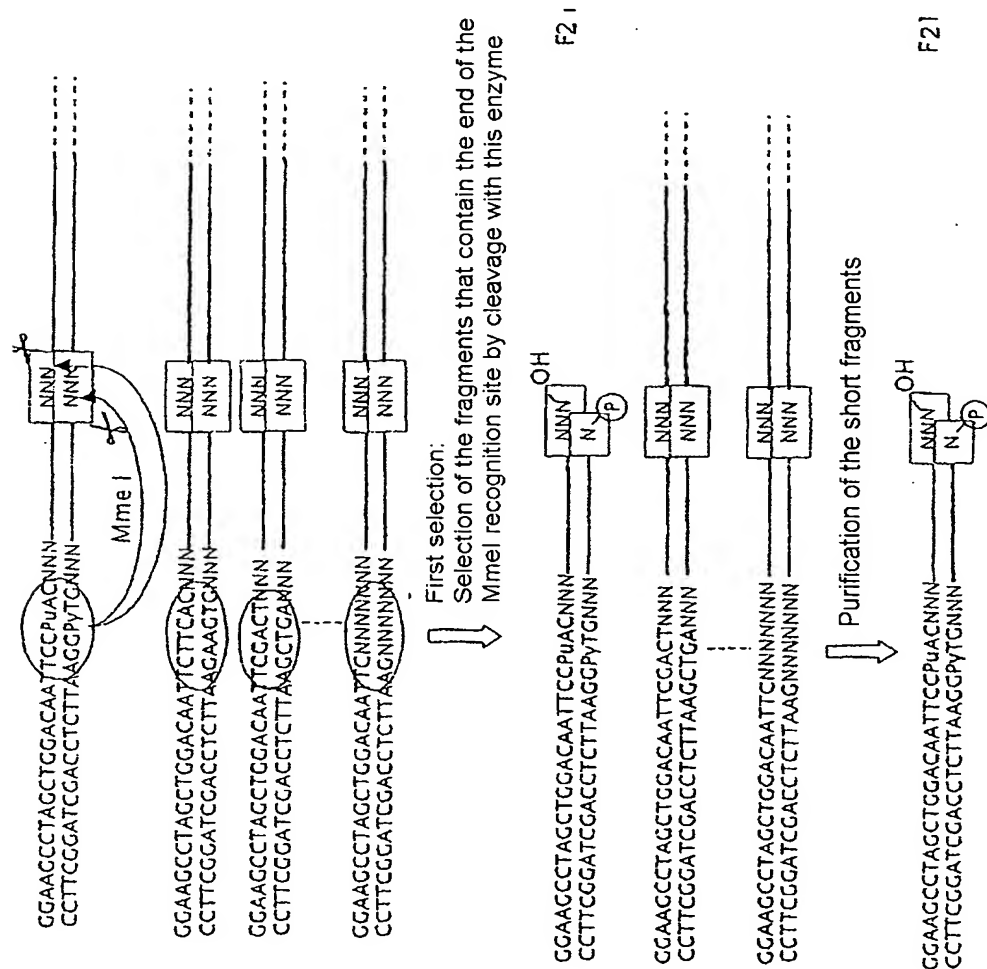


Figure 4-2

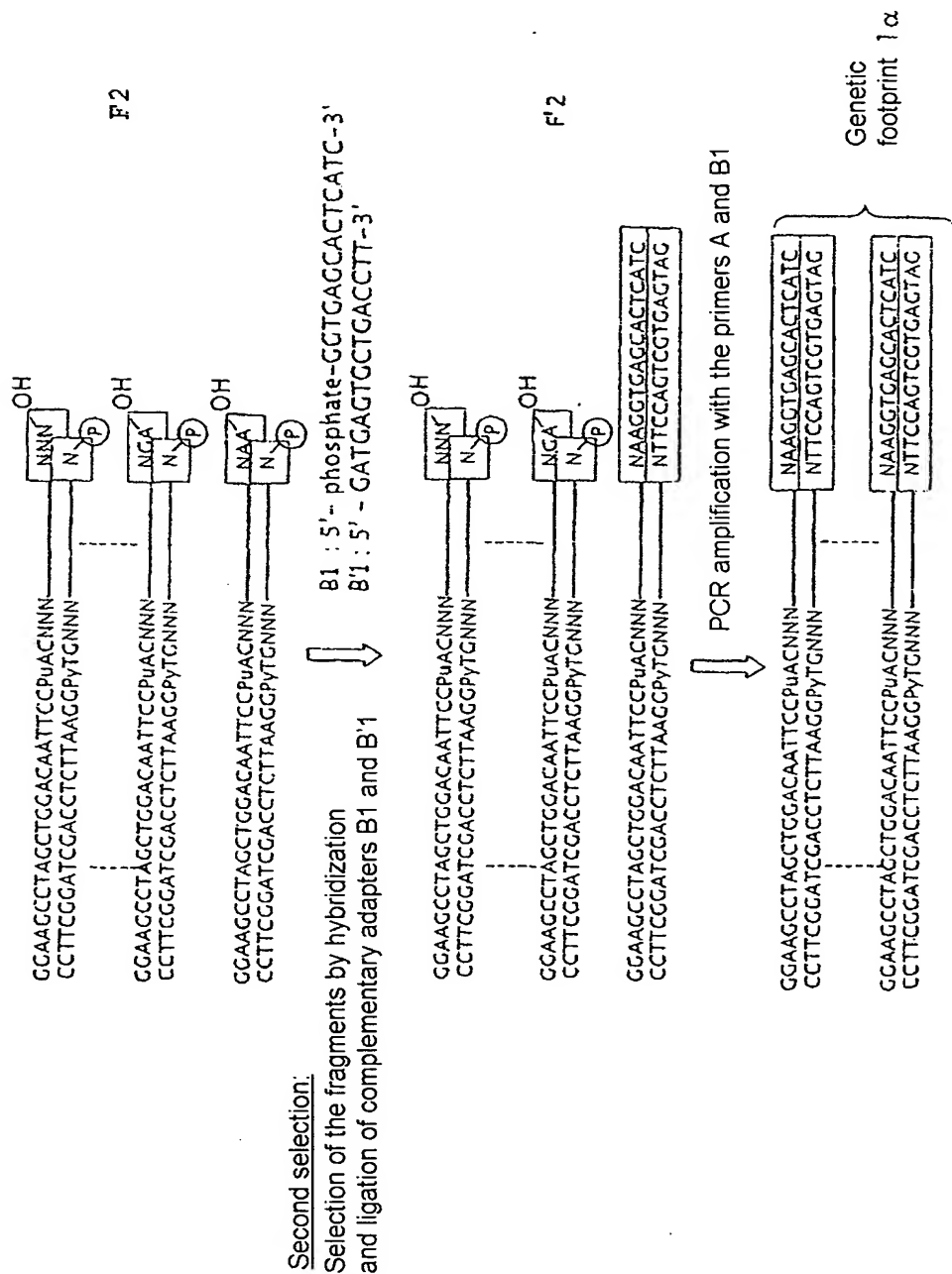
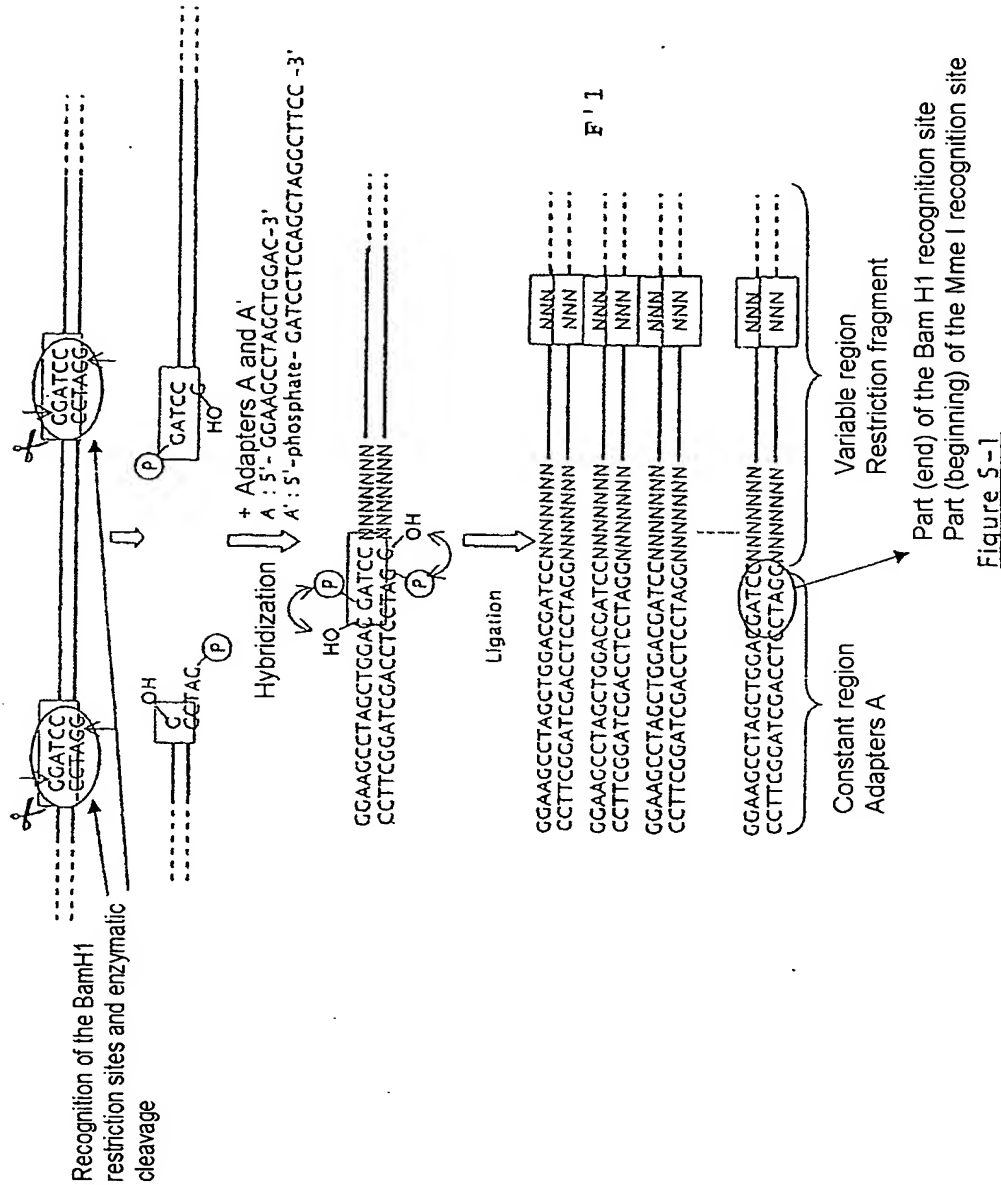


Figure 4-3



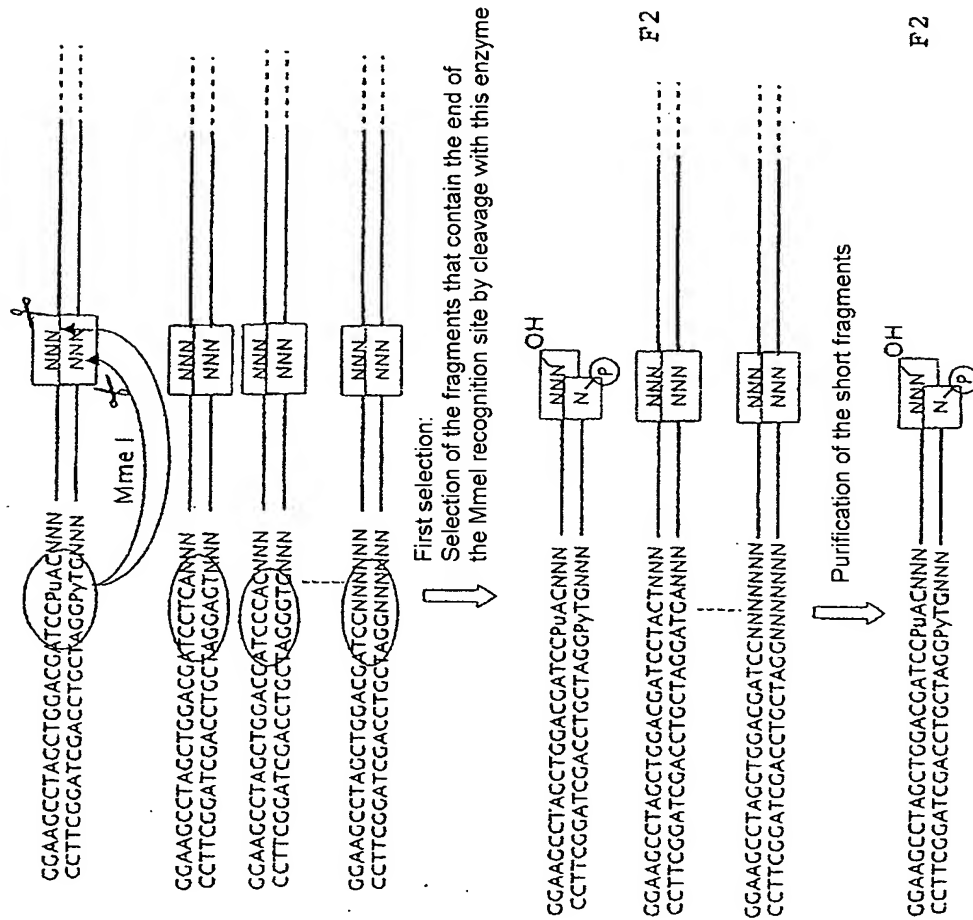
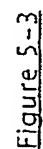


Figure 5-2

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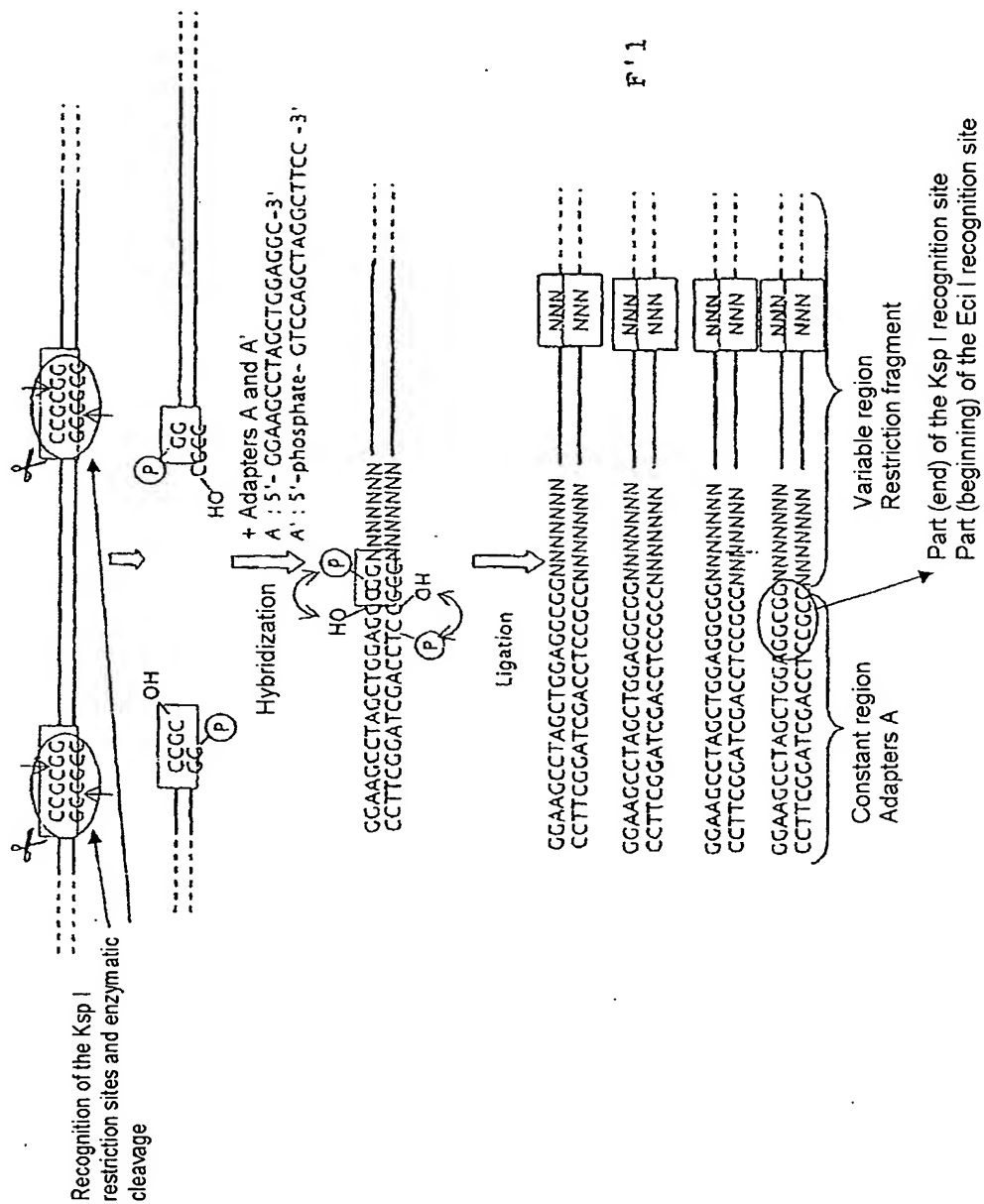
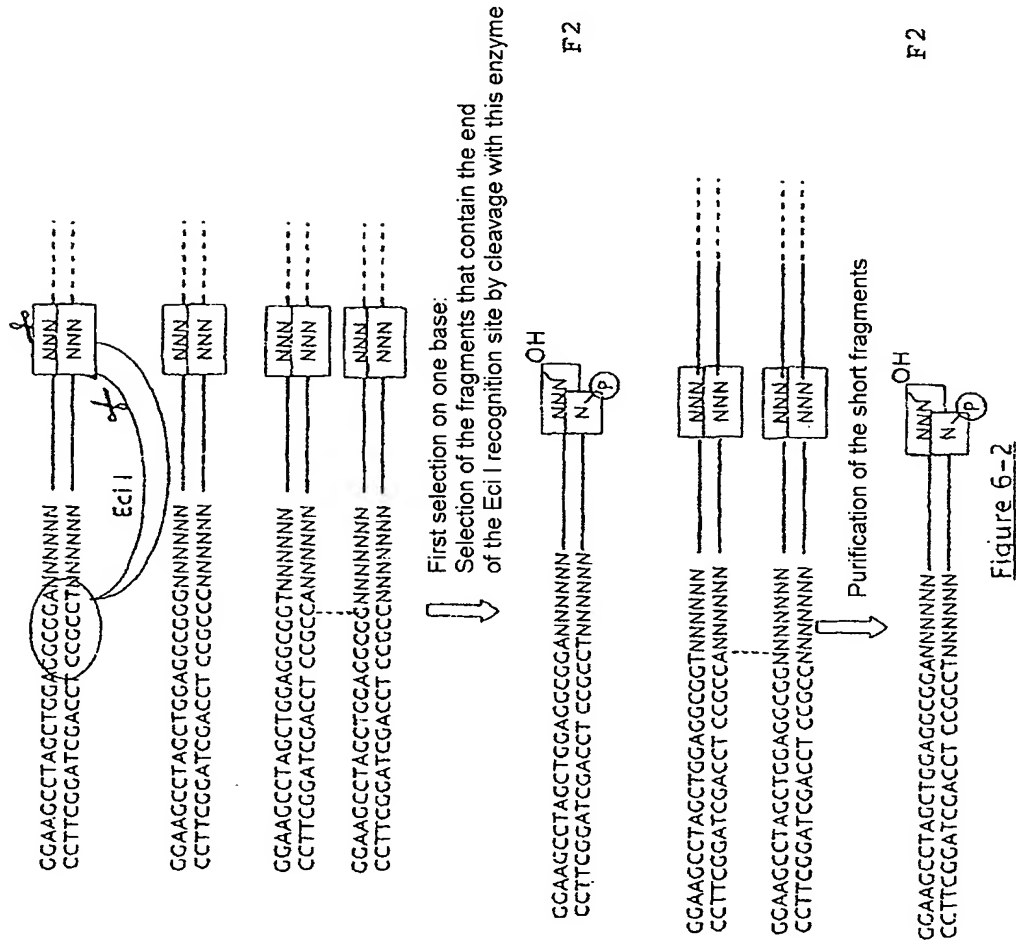


Figure 6-1



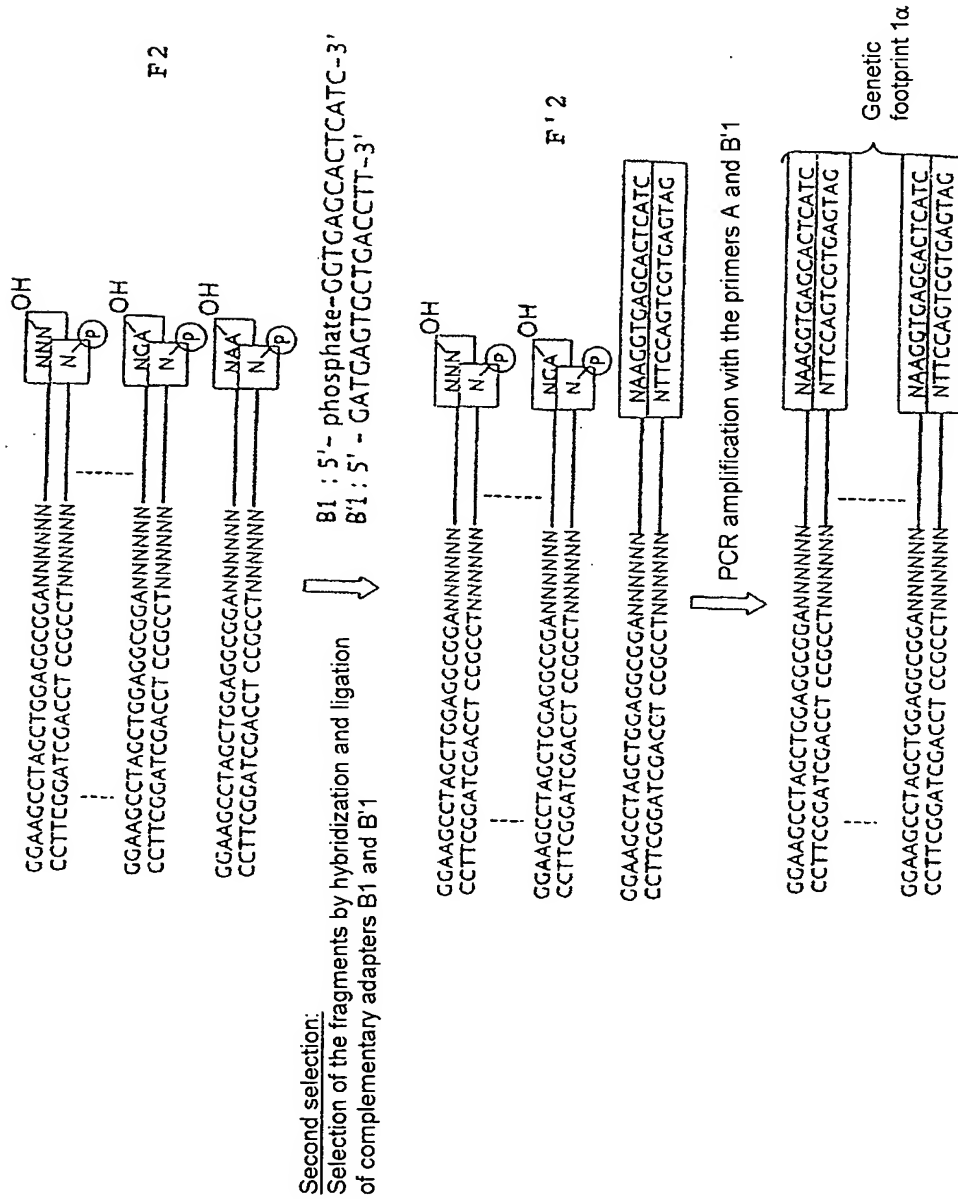


Figure 6-3

Title: METHOD OF PREPARING DNA FRAGMENTS BY SELECTIVE
FRAGMENTATION OF NUCLEIC ACIDS AND APPLICATIONS THEREOF

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Enzyme E1 _A			Enzyme E2			
Name	Restriction site	Selection 1 of the fragments by cleavage 1 (step a)	Name	Restriction site	Selection 2 of the fragments by cleavage 2 (step c)	Optional selection 3 of the fragments (steps e and f)
<i>Tag^a I</i>	-TCGA -AGCT	governed by E1 _C	<i>BseR I</i>	-GAGGAGN ₁₀ -CTCCTCN ₈	$\frac{1}{-} \frac{1}{-}$ 4 ⁴ 256	$\frac{1}{-} \frac{1}{-}$ 4 ² 16
<i>Msp I</i>	-CCGG -GGCC	governed by E1 _C	<i>BsmF I</i>	-GGGACN ₁₀ -CCCTGN ₁₄	$\frac{1}{-} \frac{1}{-}$ 4 ³ 64	$\frac{1}{-} \frac{1}{-}$ 4 ⁴ 256
<i>Msp I</i>	-CCGG -GGCC	governed by E1 _C	<i>Eci I</i>	-GGCGGAN ₁₁ -CCGCCTN ₉	$\frac{1}{-} \frac{1}{-}$ 4 ⁴ 256	$\frac{1}{-} \frac{1}{-}$ 4 ² 16
<i>Msp I</i>	-CCGG -GGCC	governed by E1 _C	<i>Fok I</i>	-GGATGN ₉ -CCTACN ₁₃	$\frac{1}{-} \frac{1}{-}$ 4 ³ 64	$\frac{1}{-} \frac{1}{-}$ 4 ⁴ 256

Figure 7

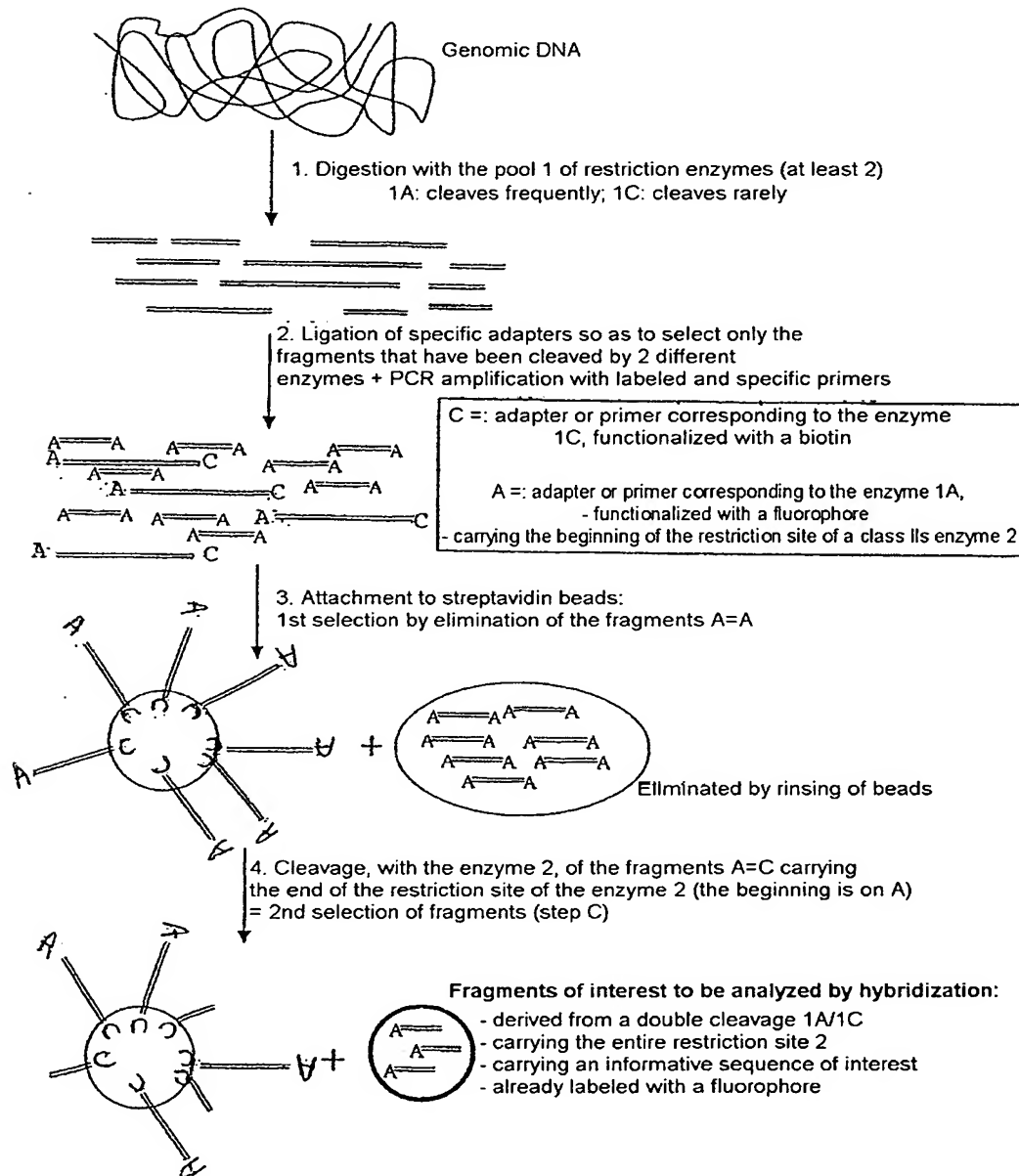


FIGURE 8